	Application No.	Applicant(s)
Notice of Allowability	10/808,193	KOYANAGI ET AL.
	Examiner	Art Unit
	. Caridad M. Evanband	2004
	Caridad M. Everhart	2891
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 1-22-2007</u> .		
2. The allowed claim(s) is/are <u>1 and 3-25</u> .		
 3.		
Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
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Attachment(s)	5 🗆	
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	5. Notice of Informal P	• •
<u> </u>	 Interview Summary Paper No./Mail Dat 	(P10-413), e
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	Paper No./Mail Dat 7.	nent/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	nt of Reasons for Allowance
	9.	

Art Unit: 2891

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: Newly cited references Van Wicjck(6,592,942B1), Haukka et al (US 2004/0043557A1), and Chou et al (US 2004/0256664A1) are considered relevant to applicant's disclosure. The prior art of record does not teach or suggest all of the limitations of the allowed claims. Van Wijck discloses the formation of a nucleation layer by atomic layer deposition and then a vapor deposition of a bulk layer (col. 5, lines 37-48). Haukka et al discloses the deposition of an aluminum oxide layer by ALD and the deposition of a metal oxide layer on the aluminum oxide layer and the surface of the substrate may be exposed to an oxidant before the aluminum precursor is flowed into the reactor(paragraph 0059 and 0051) and the metal oxide can be deposited by CVD(paragraph 0102). Chou et al discloses the exposure of a substrate to oxidant prior deposition by atomic layer deposition(paragraph 0021). In both Chou et al and Van Wickjck the precursors contain oxygen, and in Van Wicjck there is no teaching of supplying oxidizing gas before the atomic layer deposition step. Van Wicjck teaches monolayer(col. 5,lines 42-45). Haukka et al teaches monolayer(paragraph 0009). In Haukka et al, the monolayer does not contain the same metal as the metal oxide, as the metal of the monolayer is aluminum.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caridad M. Everhart whose telephone number is 571-272-1892. The examiner can normally be reached on Monday through Fridays 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, B. Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

C. Everhart 2-6-2007